

culture if necessary.

When the host is bacteria of *Bacillus* genus, the bacteria are generally cultured at about 30 - 40°C for about 6 - 24 hours, and aeration or stirring may be added to the culture if necessary.

For the medium for culturing the transformant in yeast host, for example, Burkholder minimum medium [Bostian, K.L. et al., Proc. Natl. Acad. Sci. USA, Vol. 77, 4505 (1980)] and SD medium containing 0.5% casamino acid [Bitter, G.A. et al., Proc. Natl. Acad. Sci. USA, Vol. 81, 5330 (1984)] are used. The pH of the medium is preferably adjusted to about 5 - 8. The culture conditions are generally about 20 - 35°C for about 24 - 72 hours, and aeration or stirring may be added to the culture if necessary.

For the medium for culture of the transformants in insect cells and insect hosts, Grace's insect medium [Grace, T.C.C., Nature, 195, 788 (1962)] containing appropriate supplements such as inactivated 10% bovine serum is used. The pH of the medium is preferably adjusted to about 6.2 - 6.4. Usually, the culture conditions are at about 27°C for about 3 - 5 days, and aeration or stirring may be added to the culture if necessary.

For the culture medium of the transformants in animal cell hosts, for example, MEM containing about 5 - 20% fetal calf serum [Science, Vol. 122, 501 (1952)], DMEM [Virology, Vol. 8, 396 (1959)], RPMI 1640 medium [The Journal of the American Medical Association, Vol. 199, 519 (1967)], and 199 medium [Proceeding of the Society for the Biological Medicine, Vol. 73, 1 (1950)] are used. The pH is preferably adjusted to about 6 - 8. Usually, the culture conditions are about 30 - 40°C for about 15 - 60 hours, and aeration or stirring may be added to the culture if necessary.

Specifically, the regulator sequence may be any sequence of the base sequence presented by position from 1 to 2270 of SEQ ID NO: 1 to which the UCP-2 transcriptional regulatory factor can bind, such as

5 sequences containing peroxisome proliferator response element (PPRE) presented by position 284 to 296 of SEQ ID NO: 1, sequences containing CCAAT/enhancer binding protein (C/EBP) binding sequence presented by position 1316 to 1320, 1364 to 1368, or 1698 to 1692 of SEQ ID

10 NO: 1, sequences containing glucocorticoid response element (GRE) presented by position 753 to 758, 1023 to 1030, or 1450 to 1455 of SEQ ID NO: 1, and sequences containing MyoD presented by position 1428 to 1437 of SEQ ID NO: 1.

15 Therefore, a DNA of this invention contains the promoter region containing the said regulator sequence, and a DNA of this invention may contain a multiple number of the said regulator sequences.

For the base sequences containing a part of the

20 base sequence presented by position 1 to 2270 of SEQ ID NO: 1, any base sequences containing the regulator sequence described above may be used. Specifically, the base sequence presented by position 255 to 430 of SEQ ID NO: 1, the base sequence presented by position

25 255 to 717 of SEQ ID NO: 1, the base sequence presented by position 717 to 1133 of SEQ ID NO: 1, the base sequence presented by position 1133 to 1389 of SEQ ID NO: 1, and the base sequence presented by position 255 to 1857 of SEQ ID NO: 1 are used.

30 Furthermore, the base sequence presented by position 571 to 2270 of SEQ ID NO: 1, the base sequence presented by position 717 to 2270 of SEQ ID NO: 1, the base sequence presented by position 1133 to 2270 of SEQ ID NO: 1, the base sequence presented by position 1389

35 to 2270 of SEQ ID NO: 1, and the base sequence

